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Inventor: Barry Smith Fagg, et al.
Filed: October 9, 2003
Title: MATERIALS, EQUIPMENT AND METHODS FOR MANUFACTURING CIGARETTES
Atty: J. Michael Boggs Phone # 336-747-7536

Sheet 1 of 28

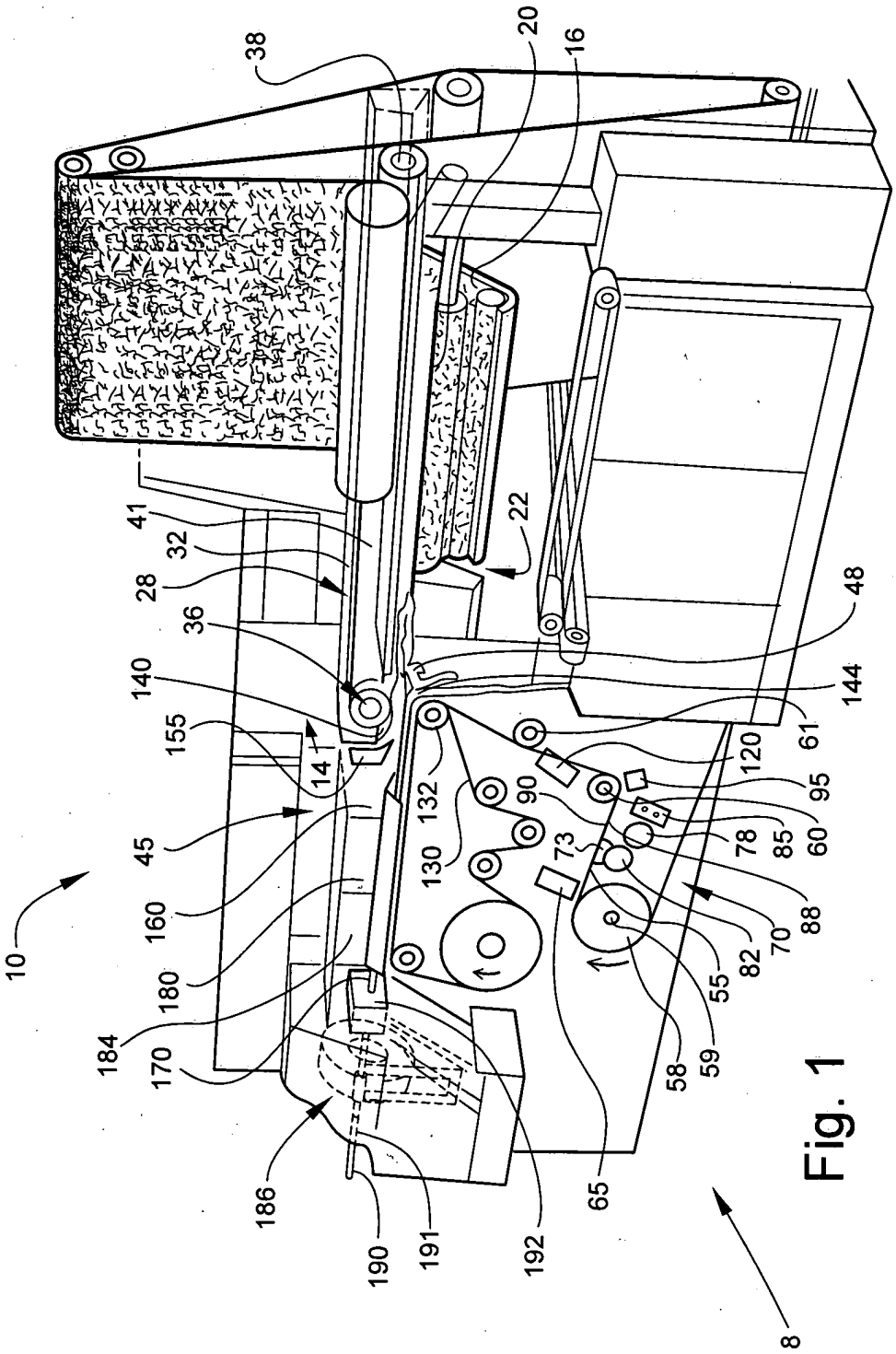

Fig. 1

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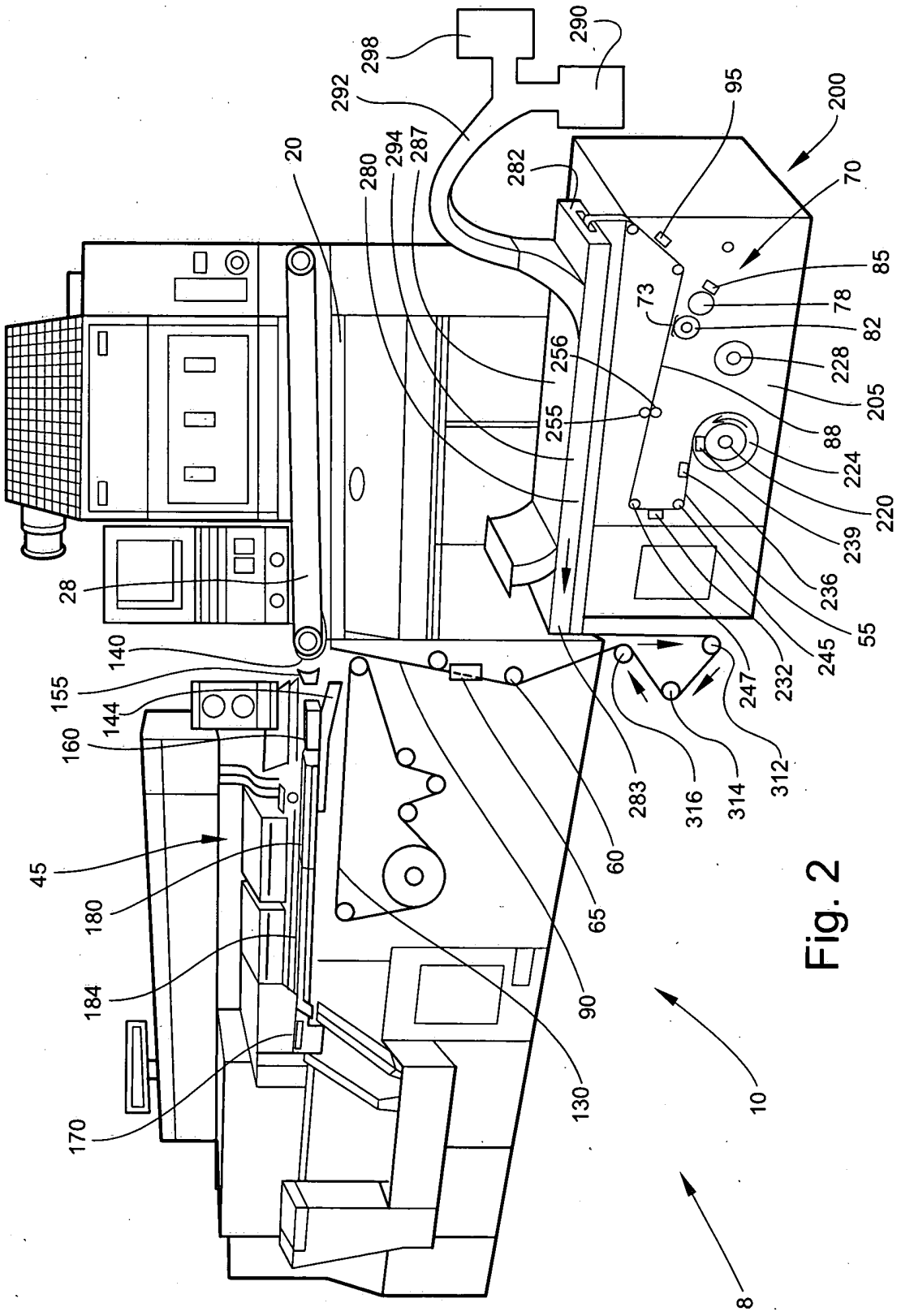

Fig. 2

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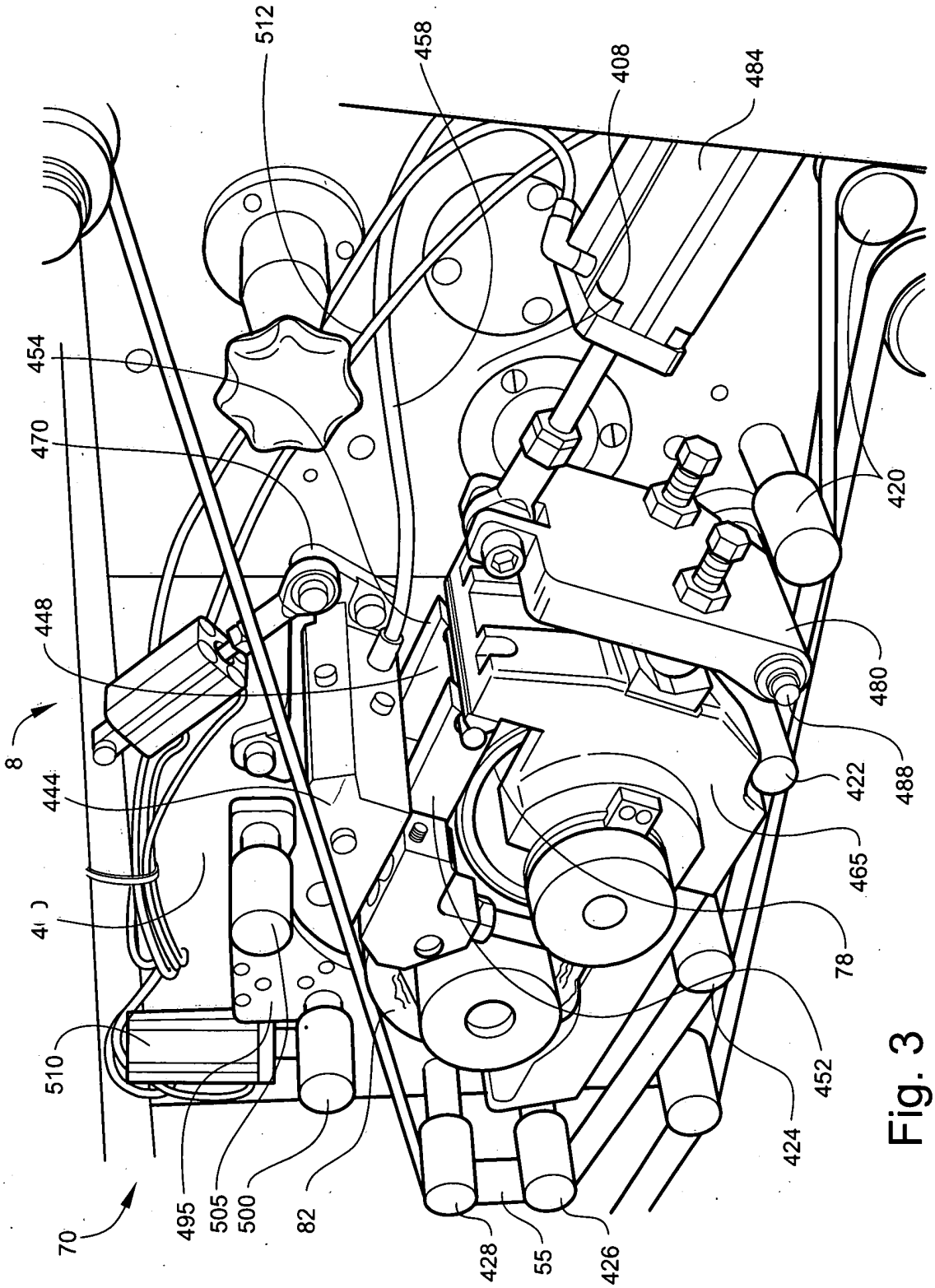

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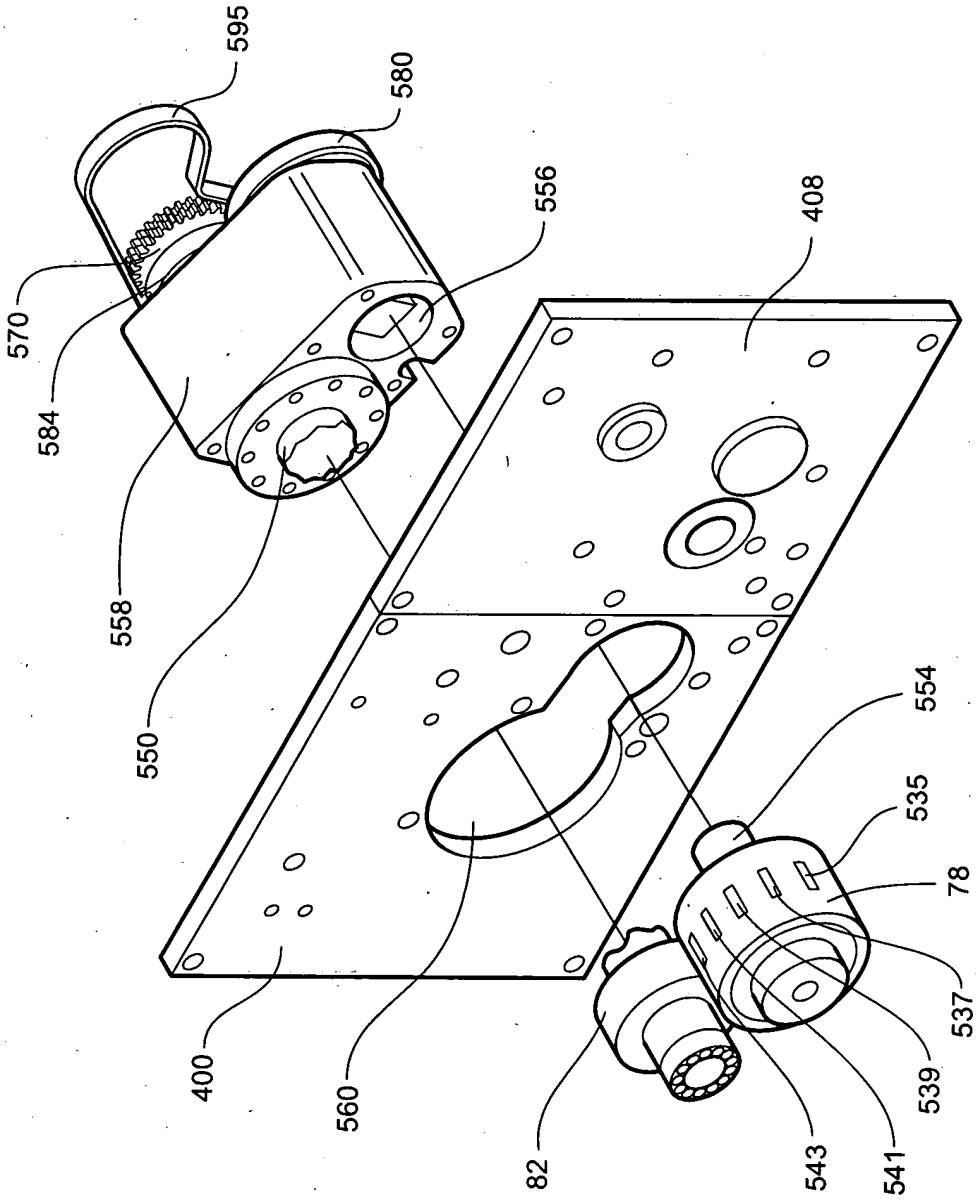
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Fig. 4

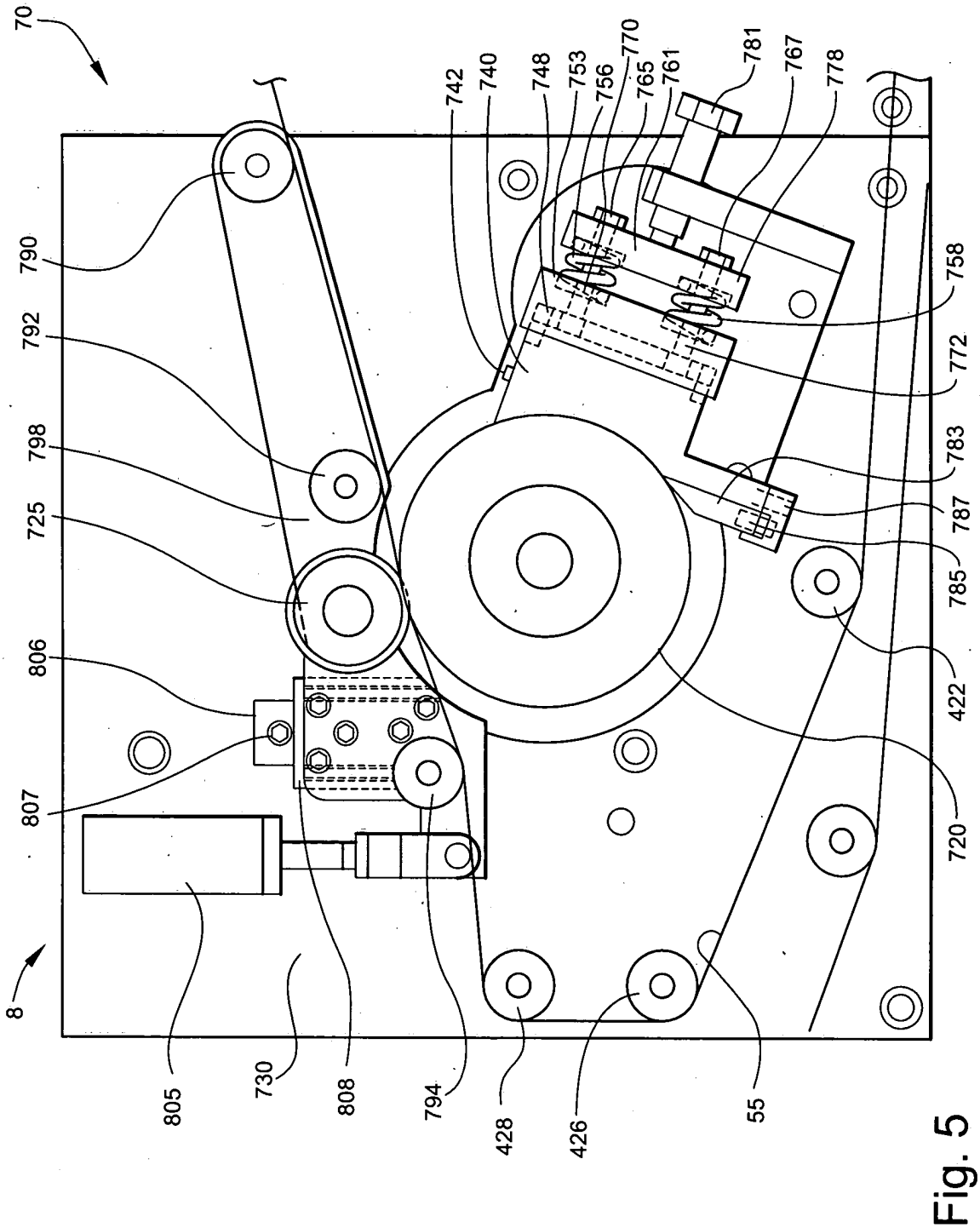
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Fig. 5

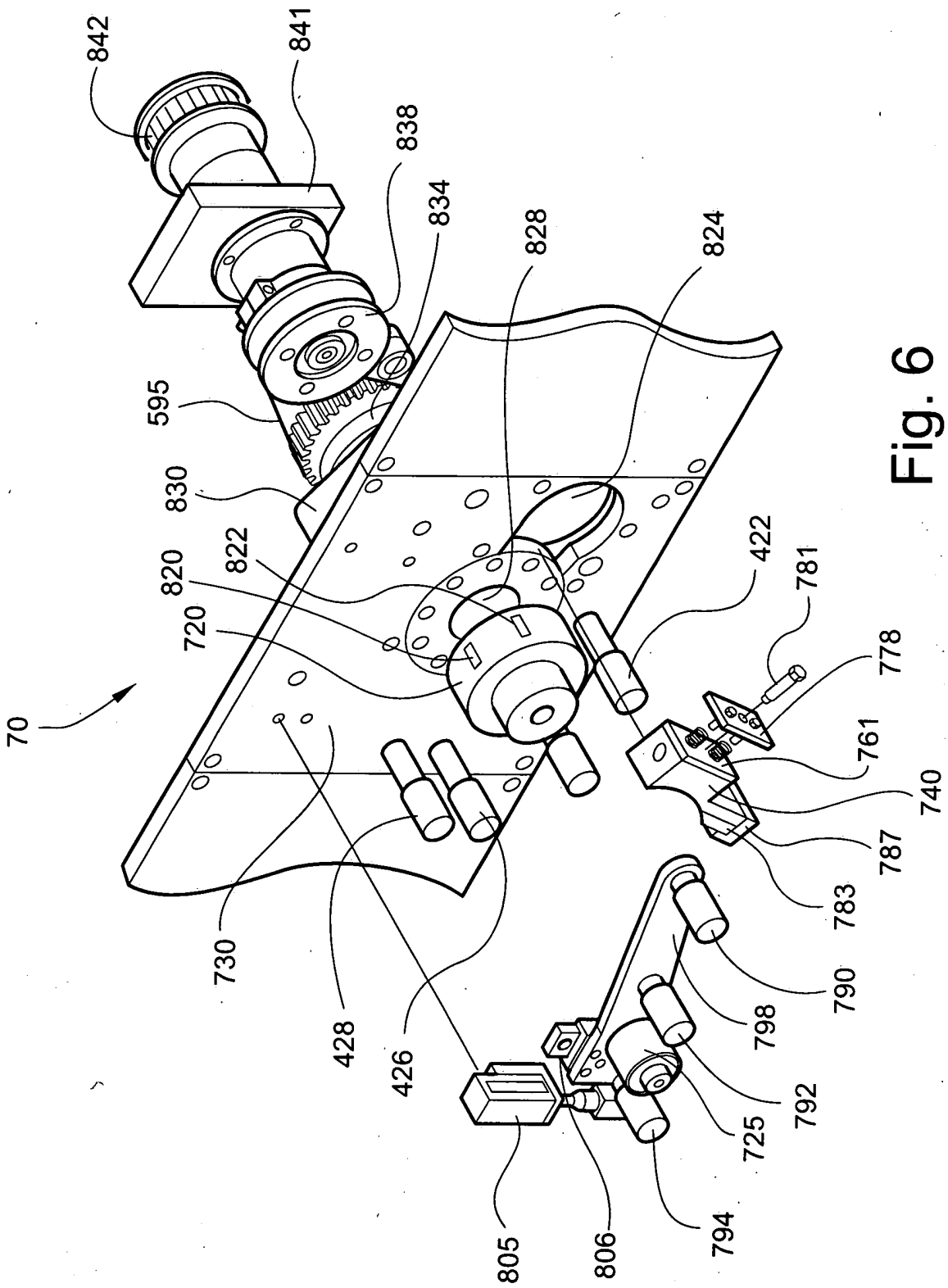
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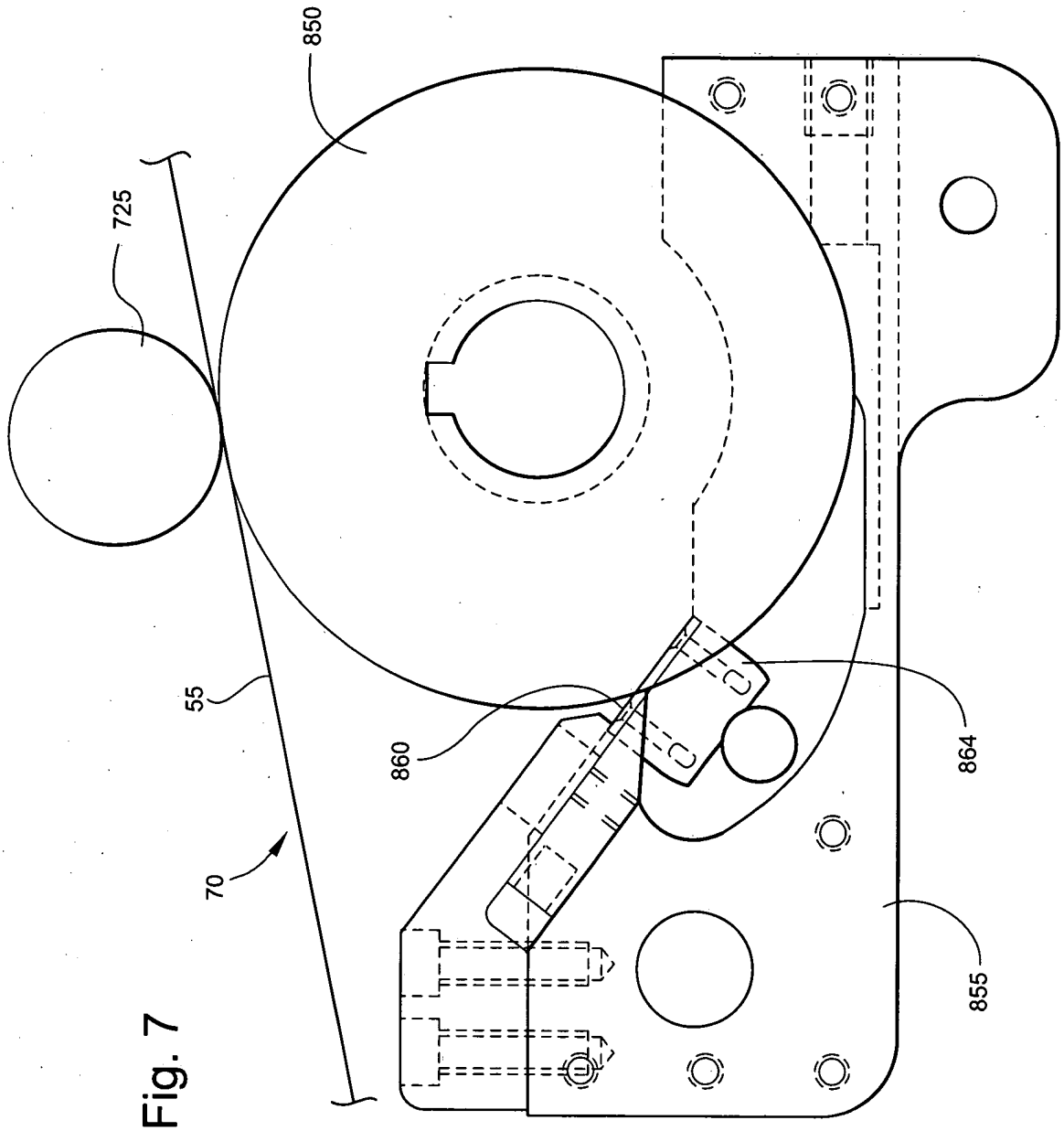
Fig. 6



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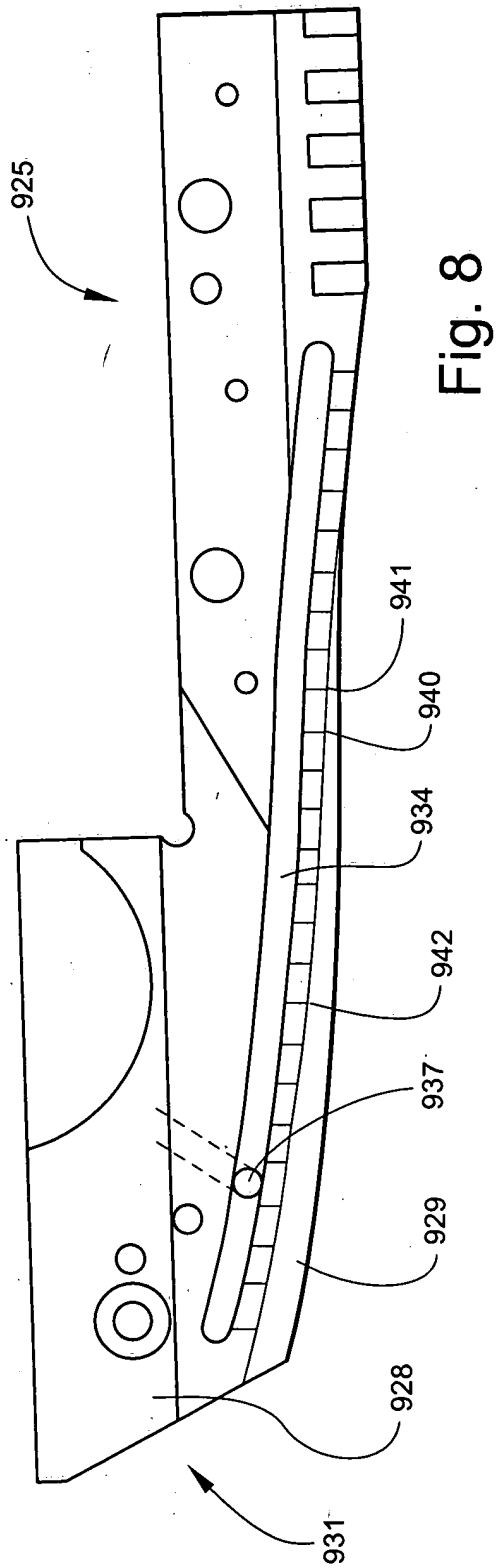

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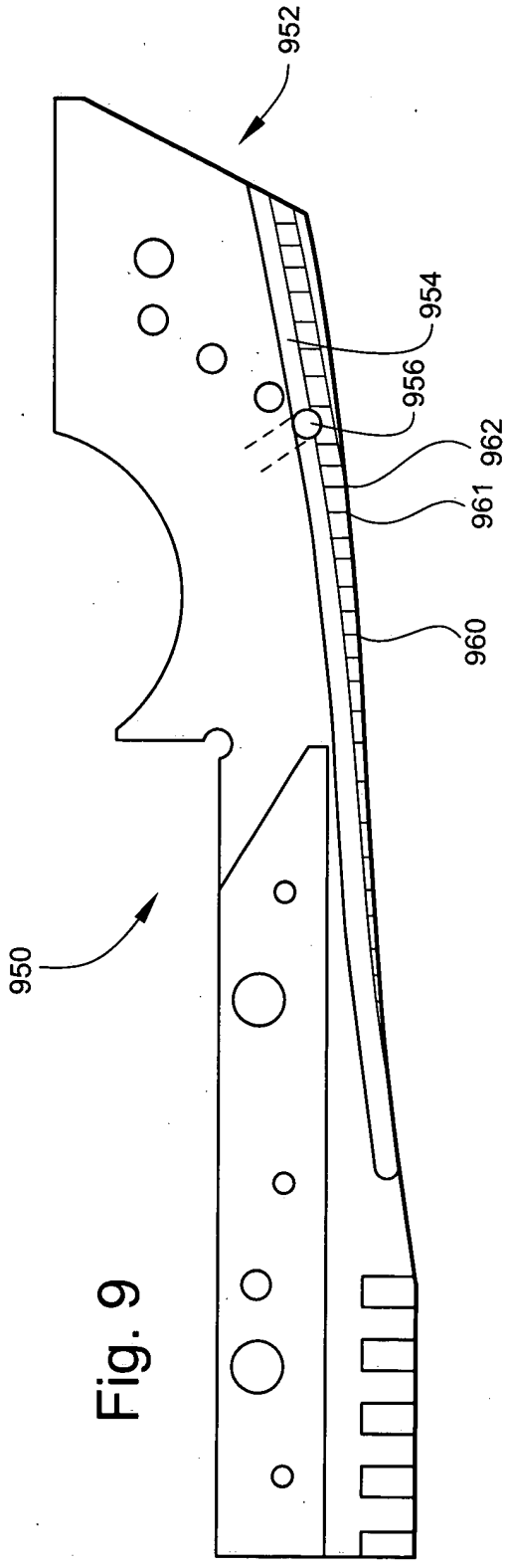

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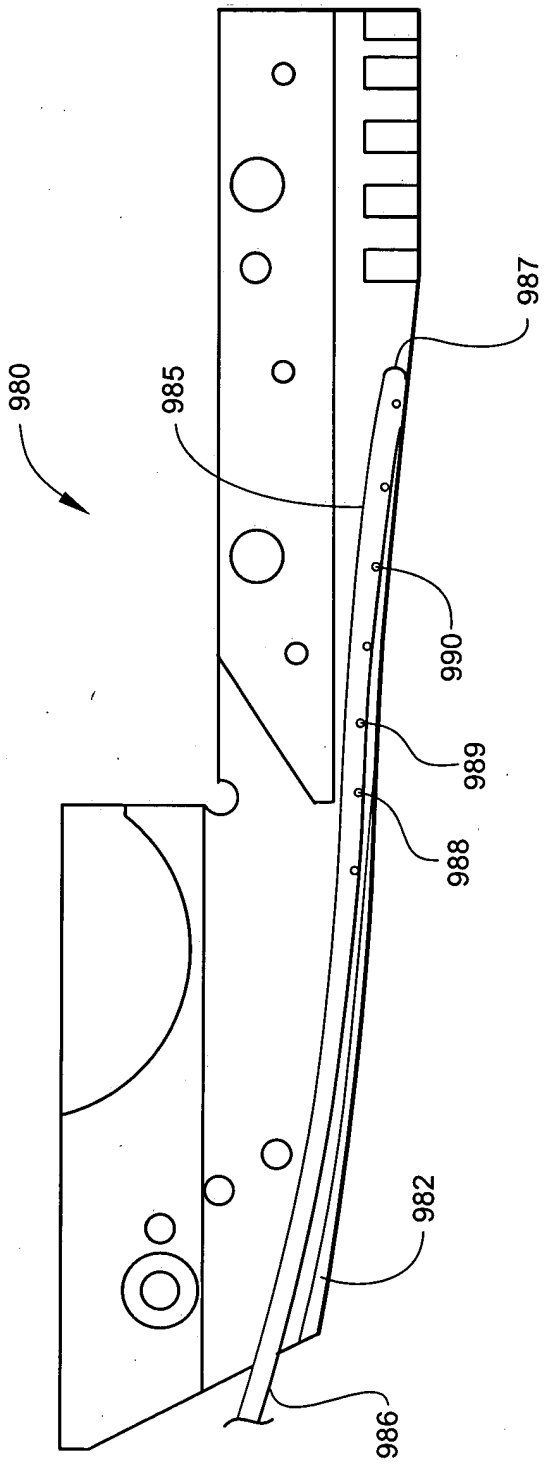

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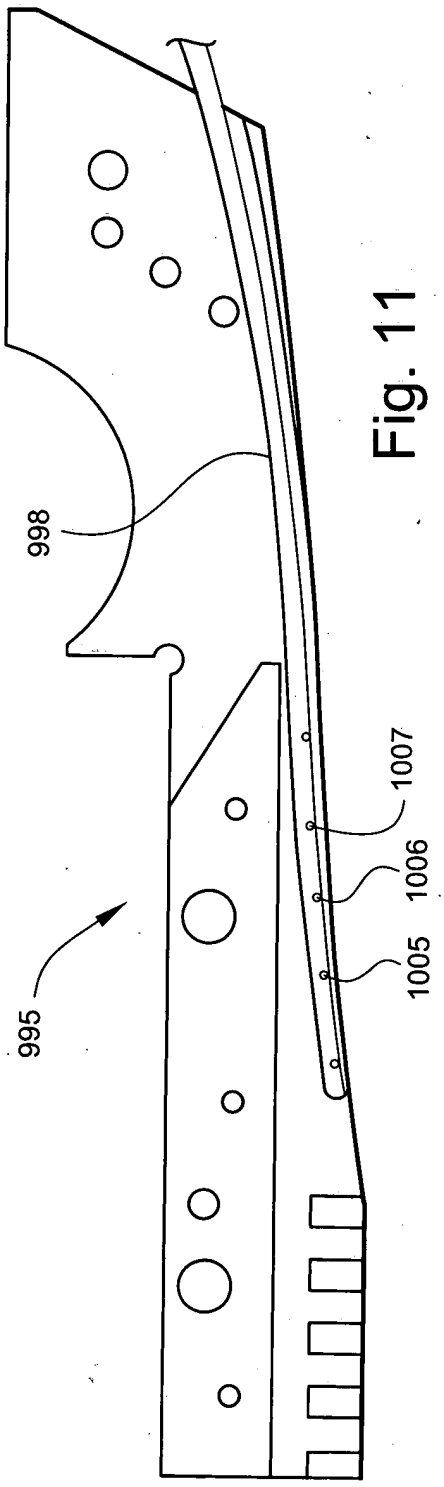

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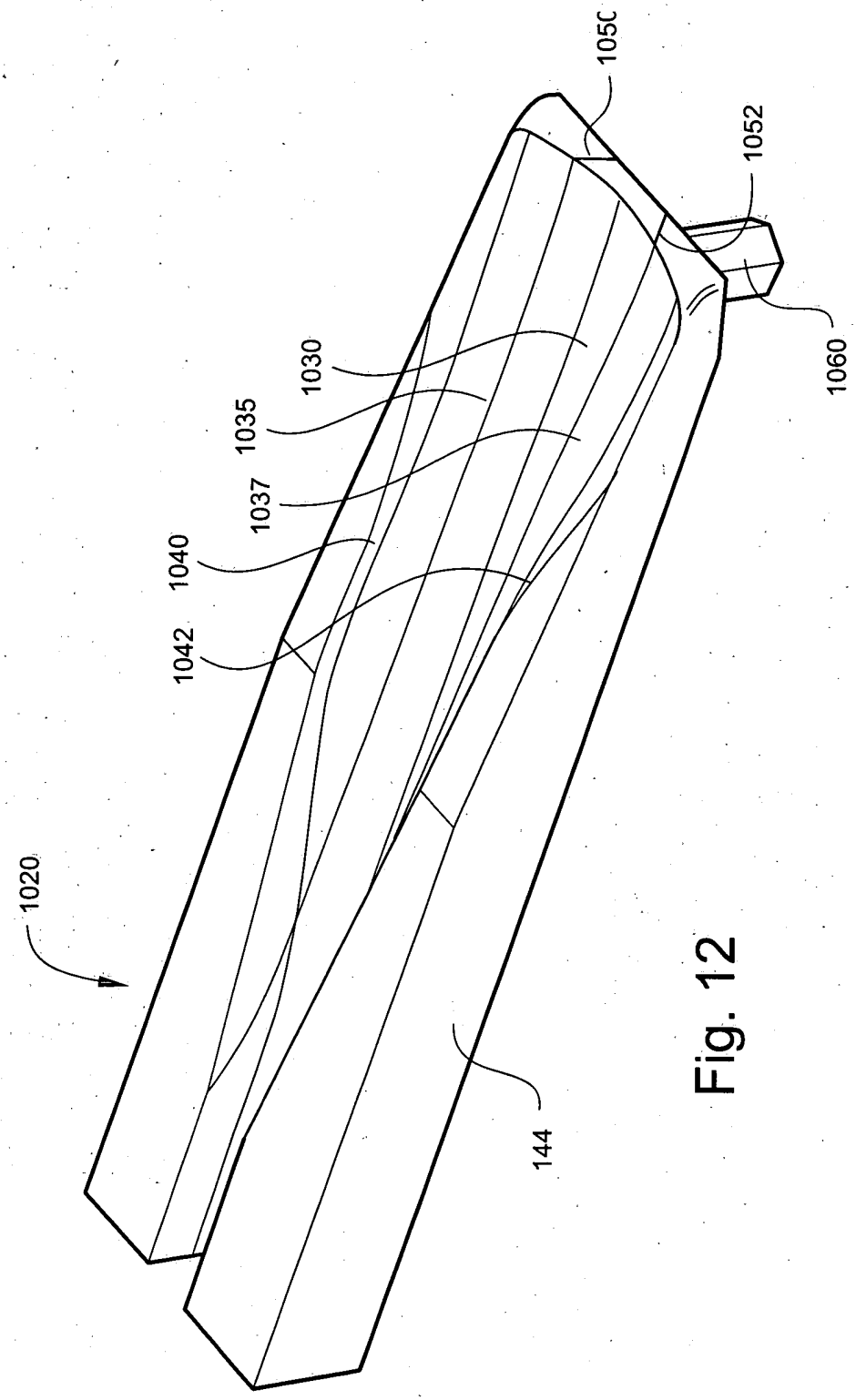

Fig. 12

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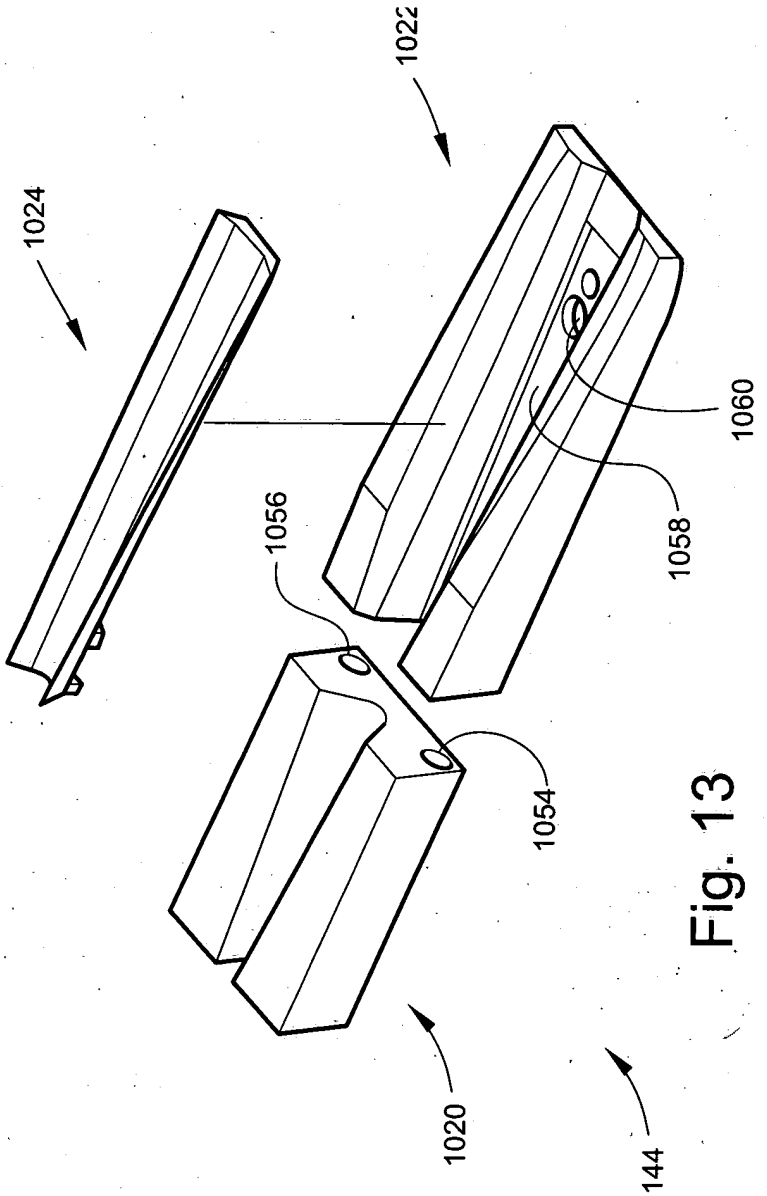

Fig. 13

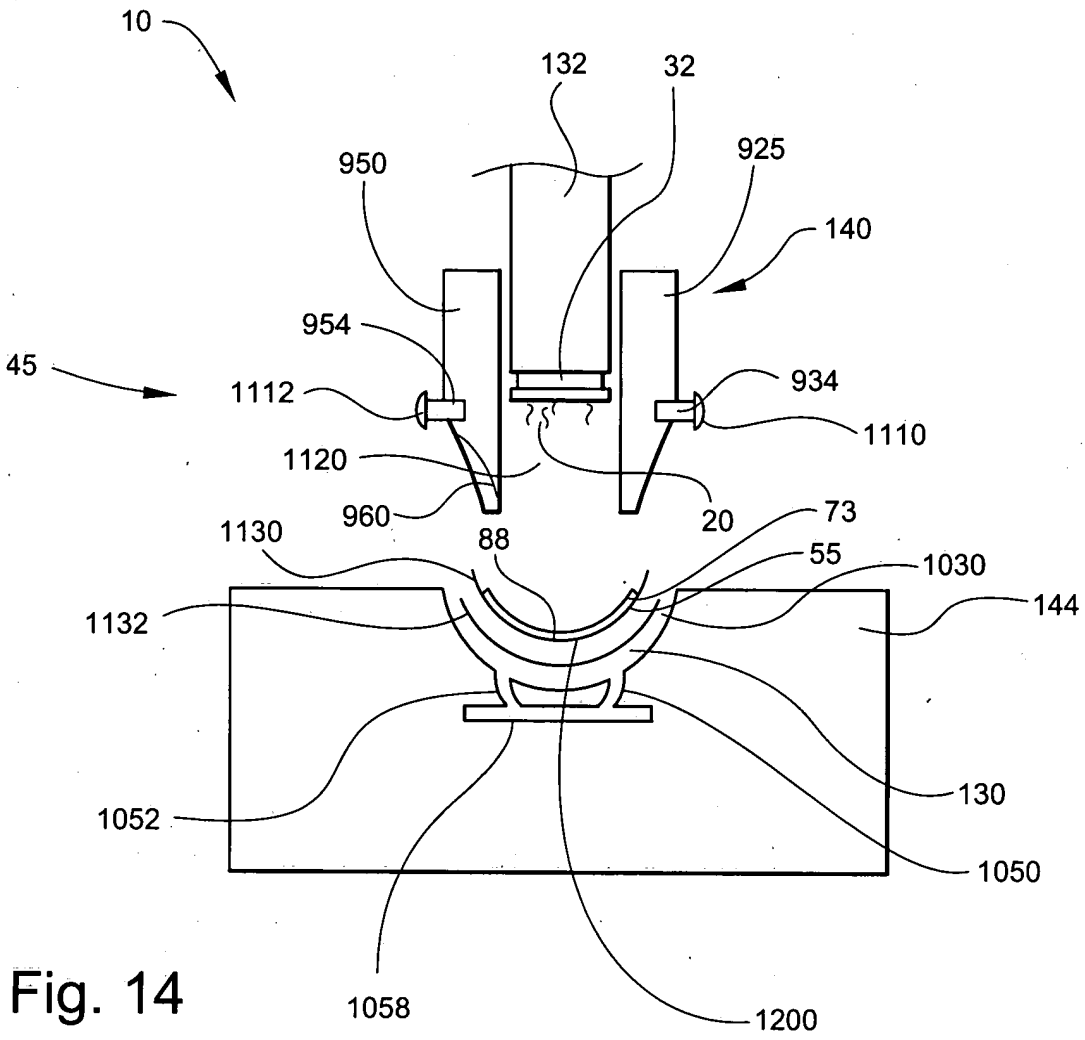
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Fig. 14

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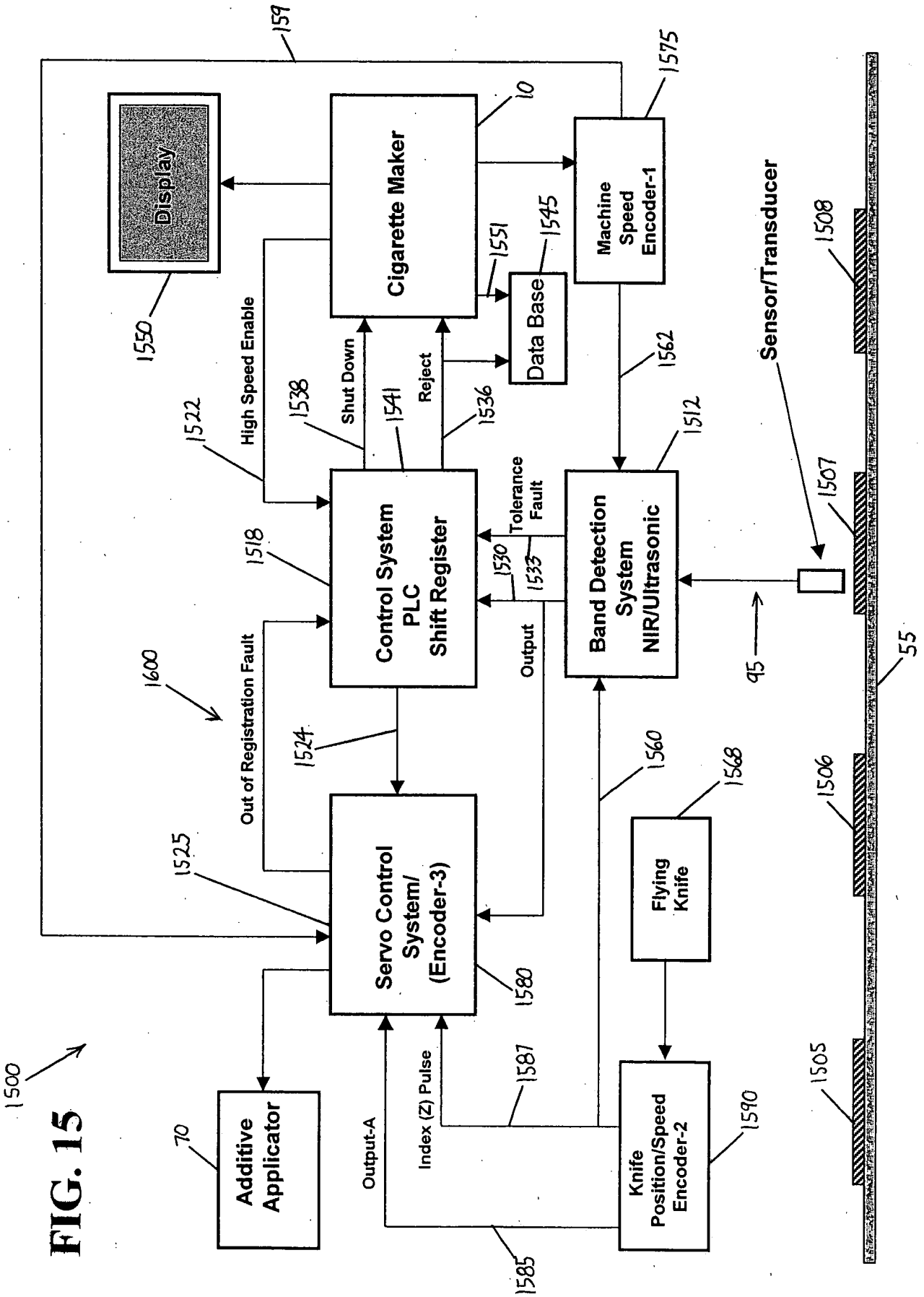


FIG. 15

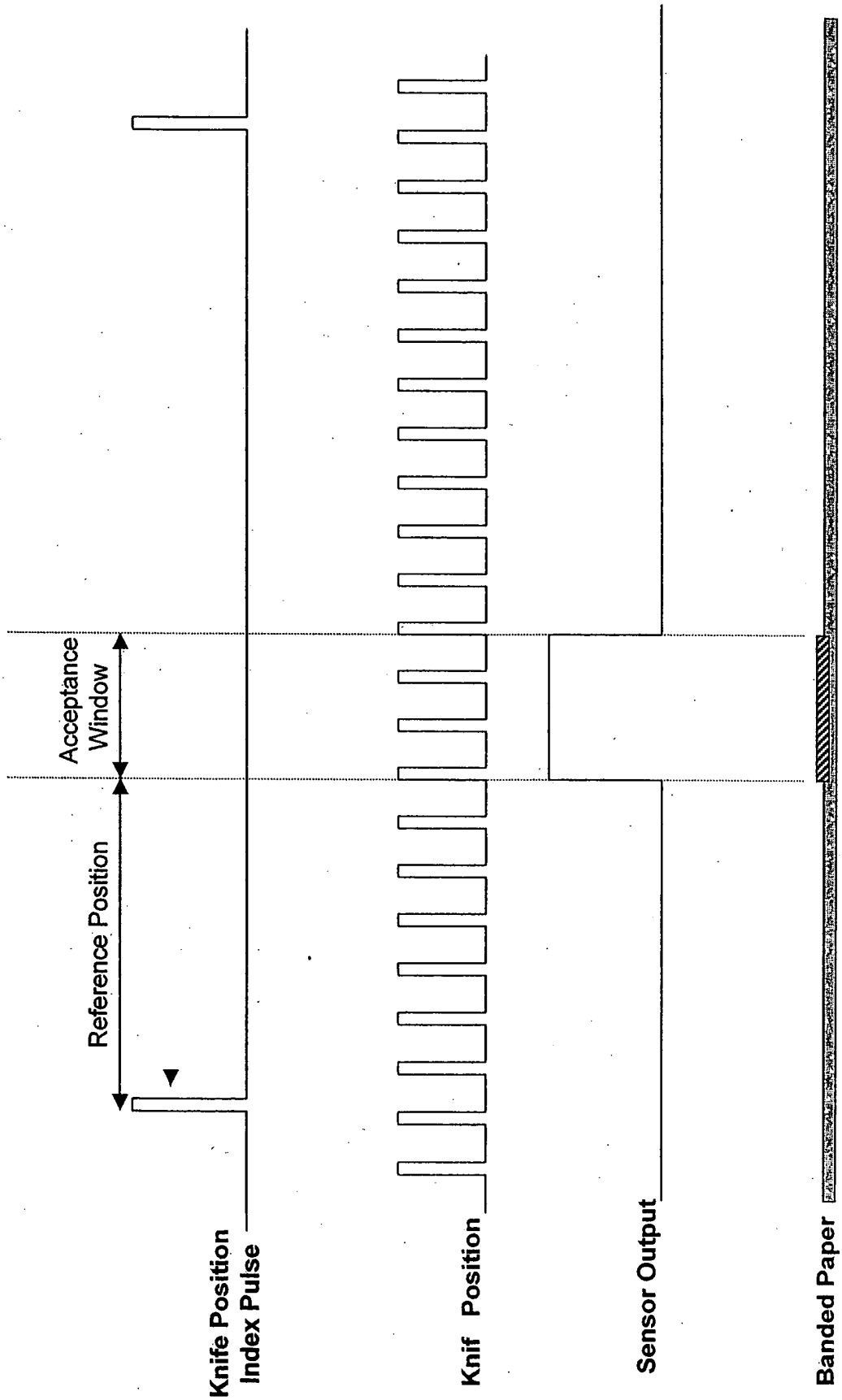
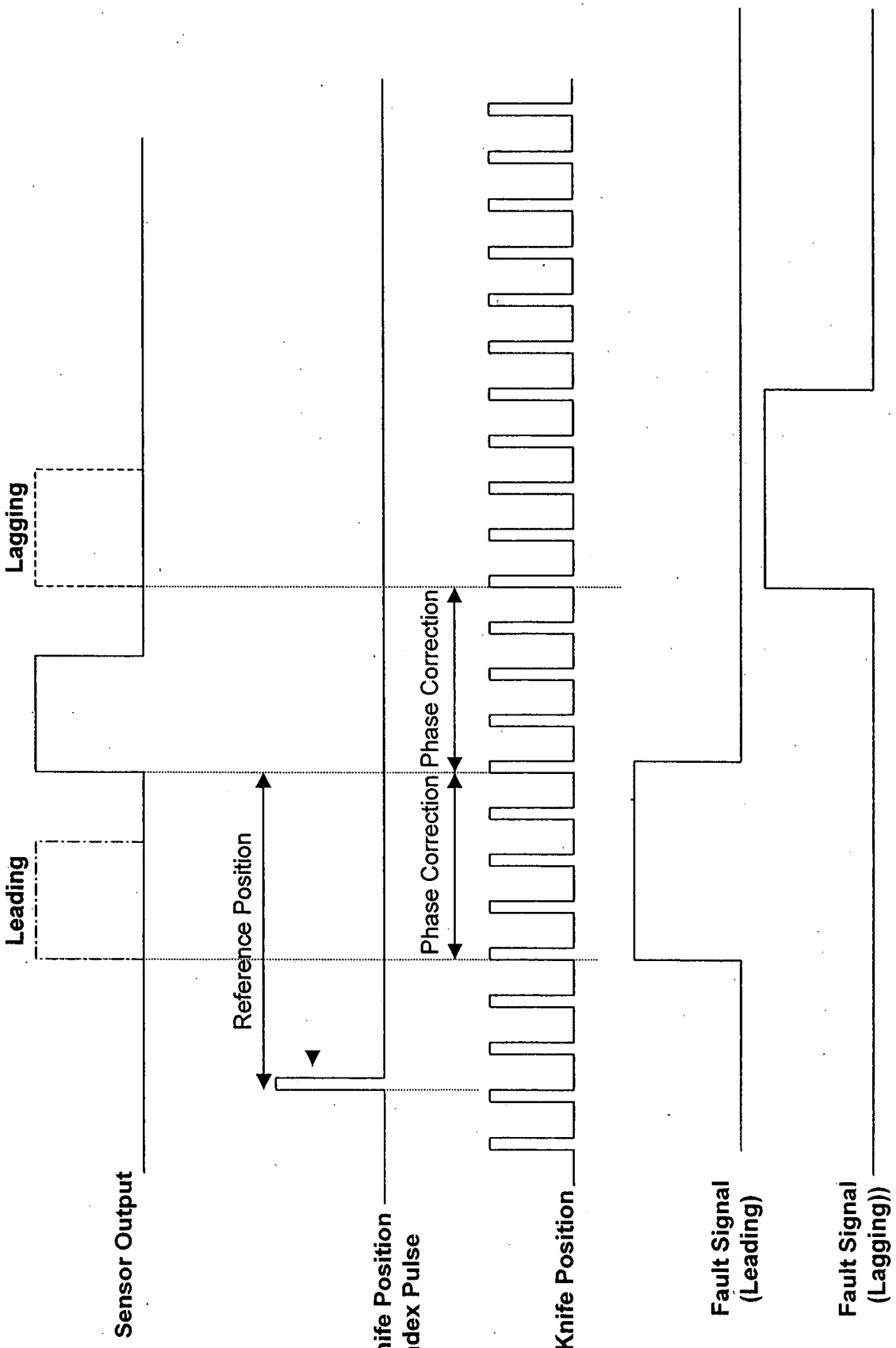

Acceptance Window
Reference Position
Knife Position Index Pulse
Knif Position
Sensor Output
Banded Paper

FIG. 16

FIG. 17


Lagging
Leading
Reference Position
Phase Correction
Phase Correction
Sensor Output
Knife Position
Index Pulse
Knife Position
Fault Signal
(Leading)
Fault Signal
(Lagging))

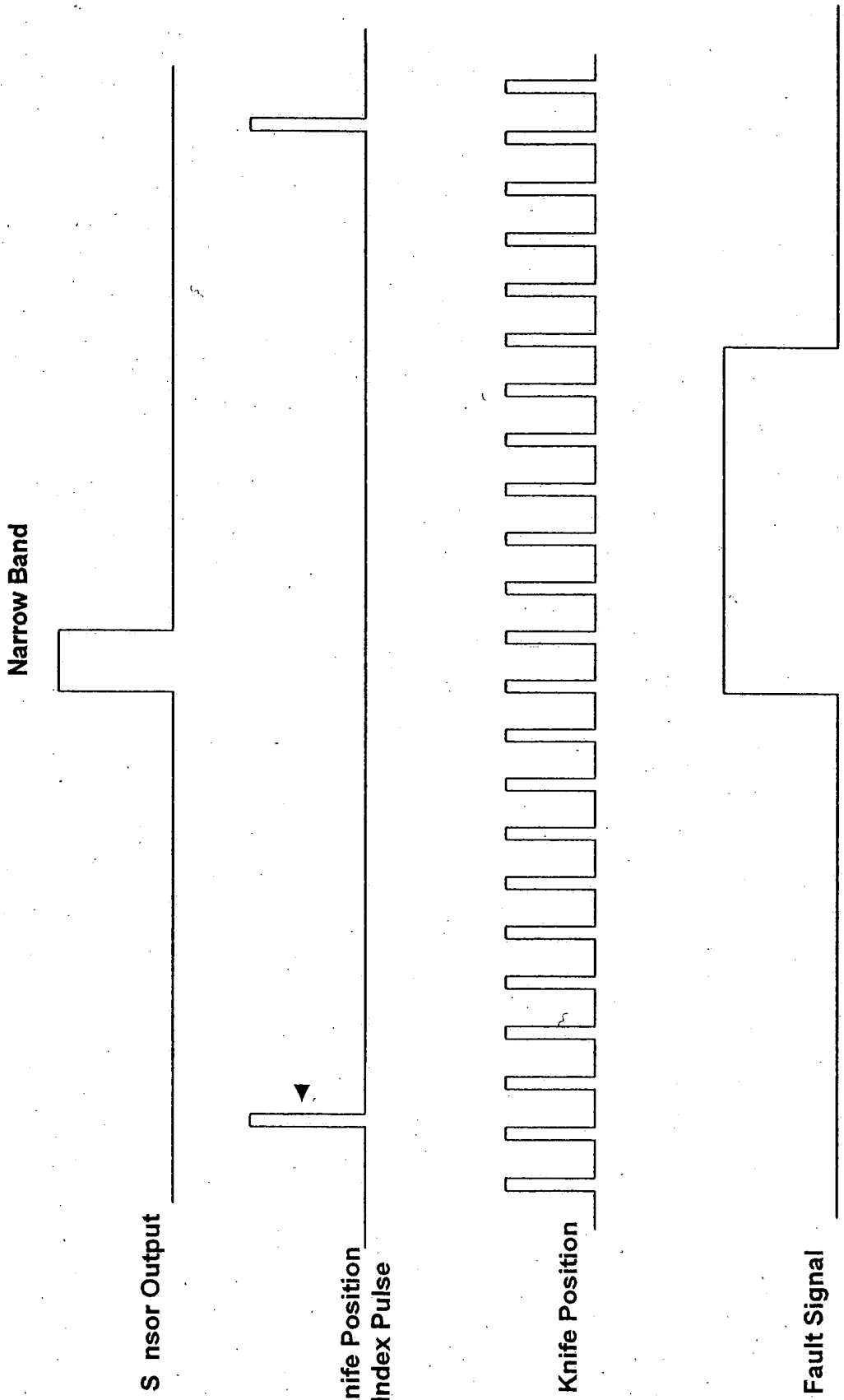

Narrow Band
S nsor Output
Knife Position
Index Pulse
Knife Position
Fault Signal

FIG. 18

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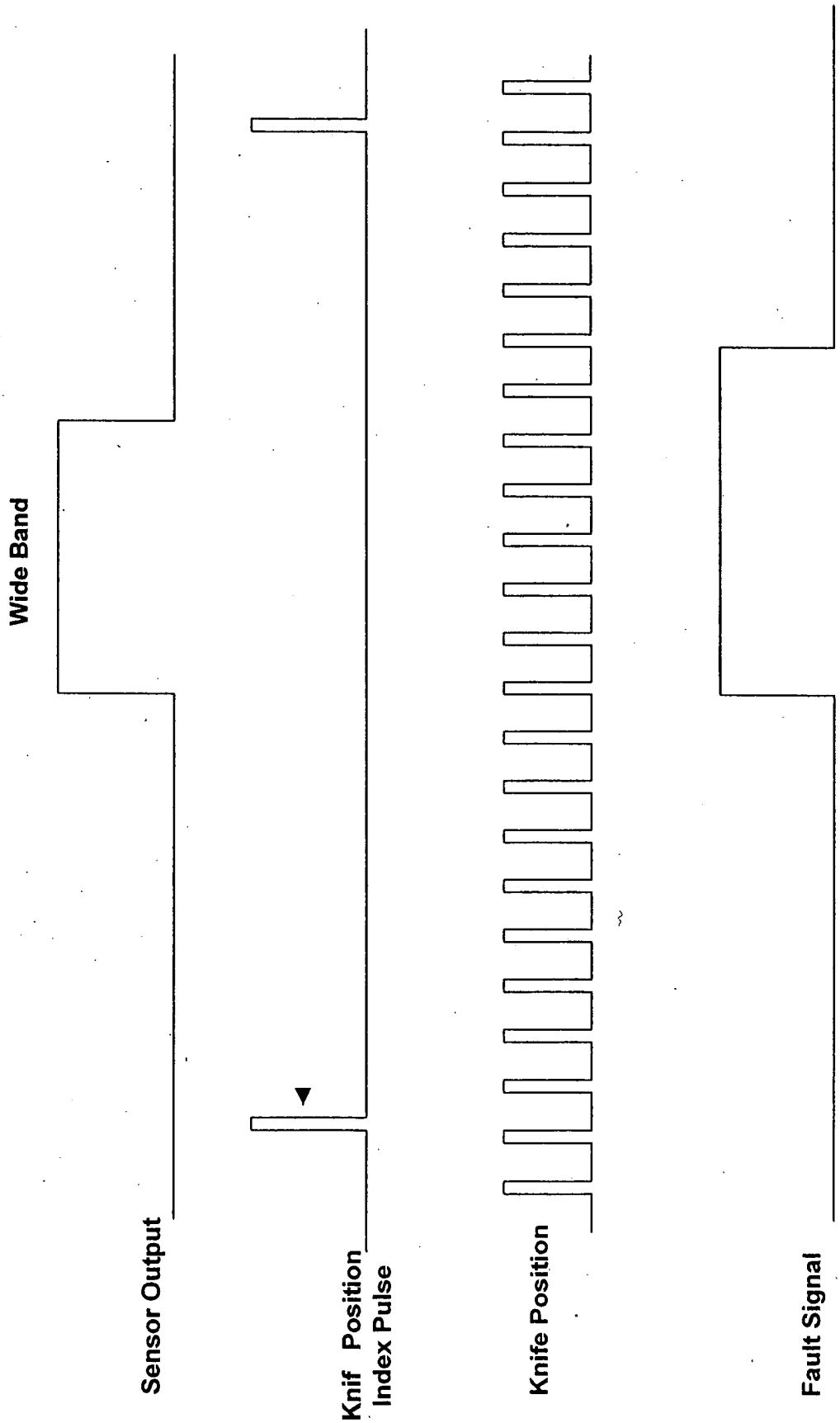

FIG. 19

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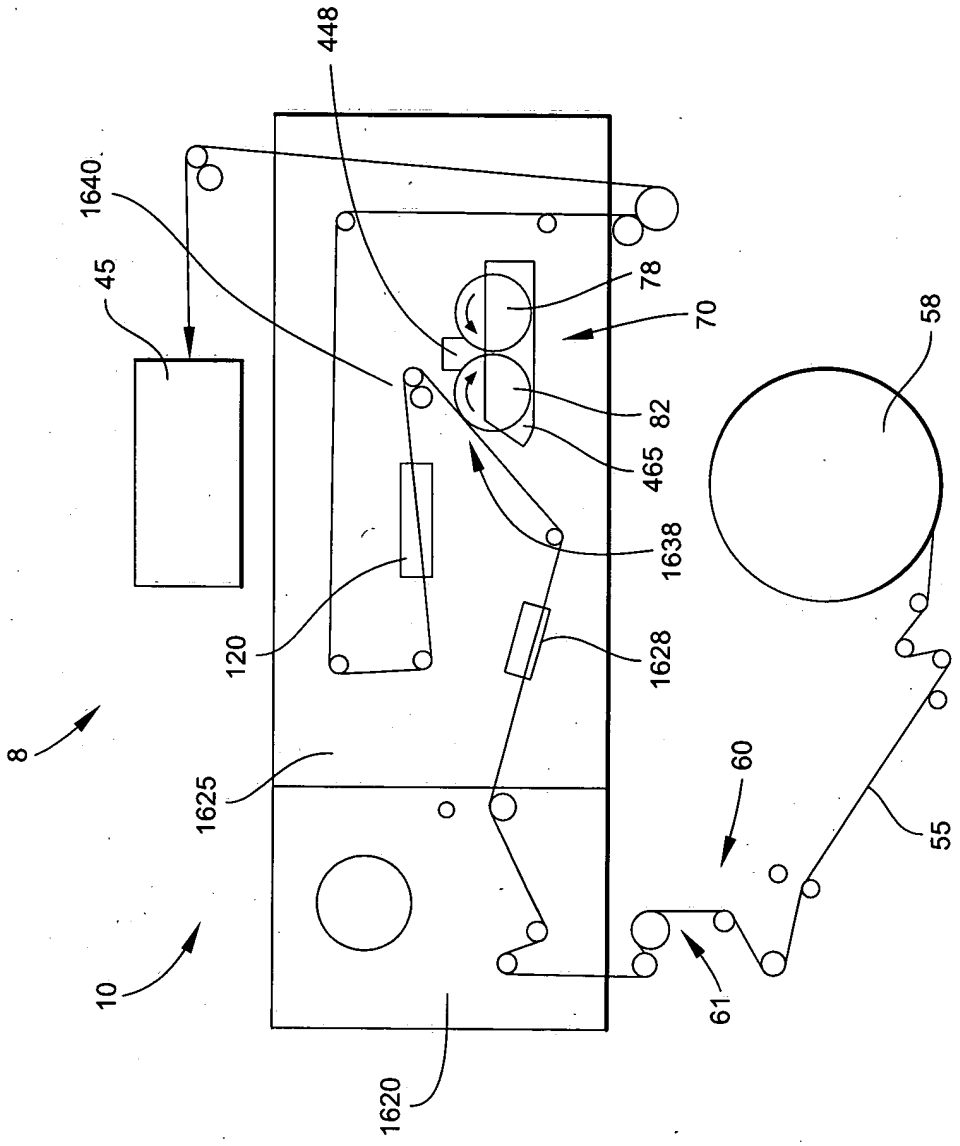

Fig. 20

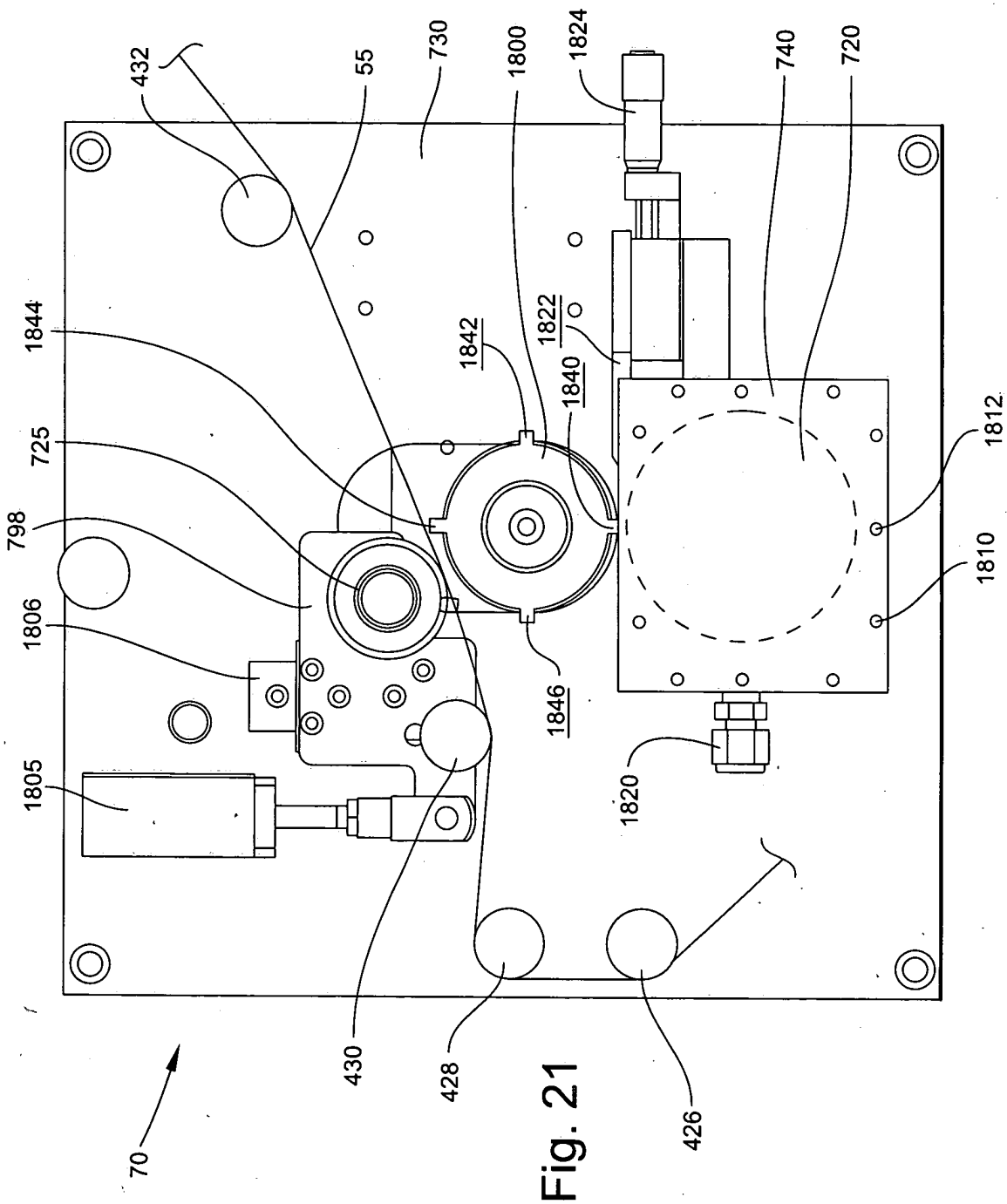
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Fig. 21

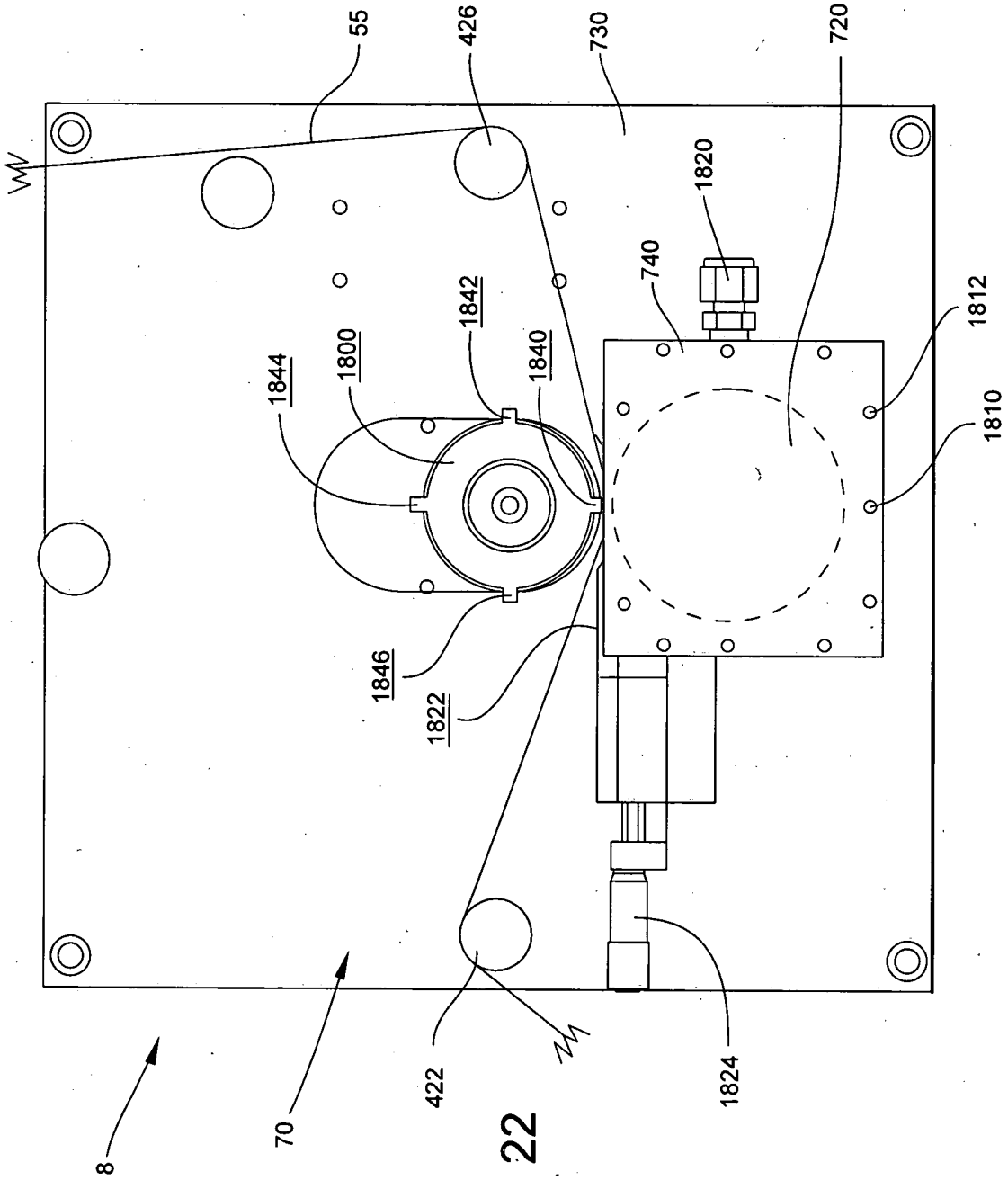
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Fig. 22

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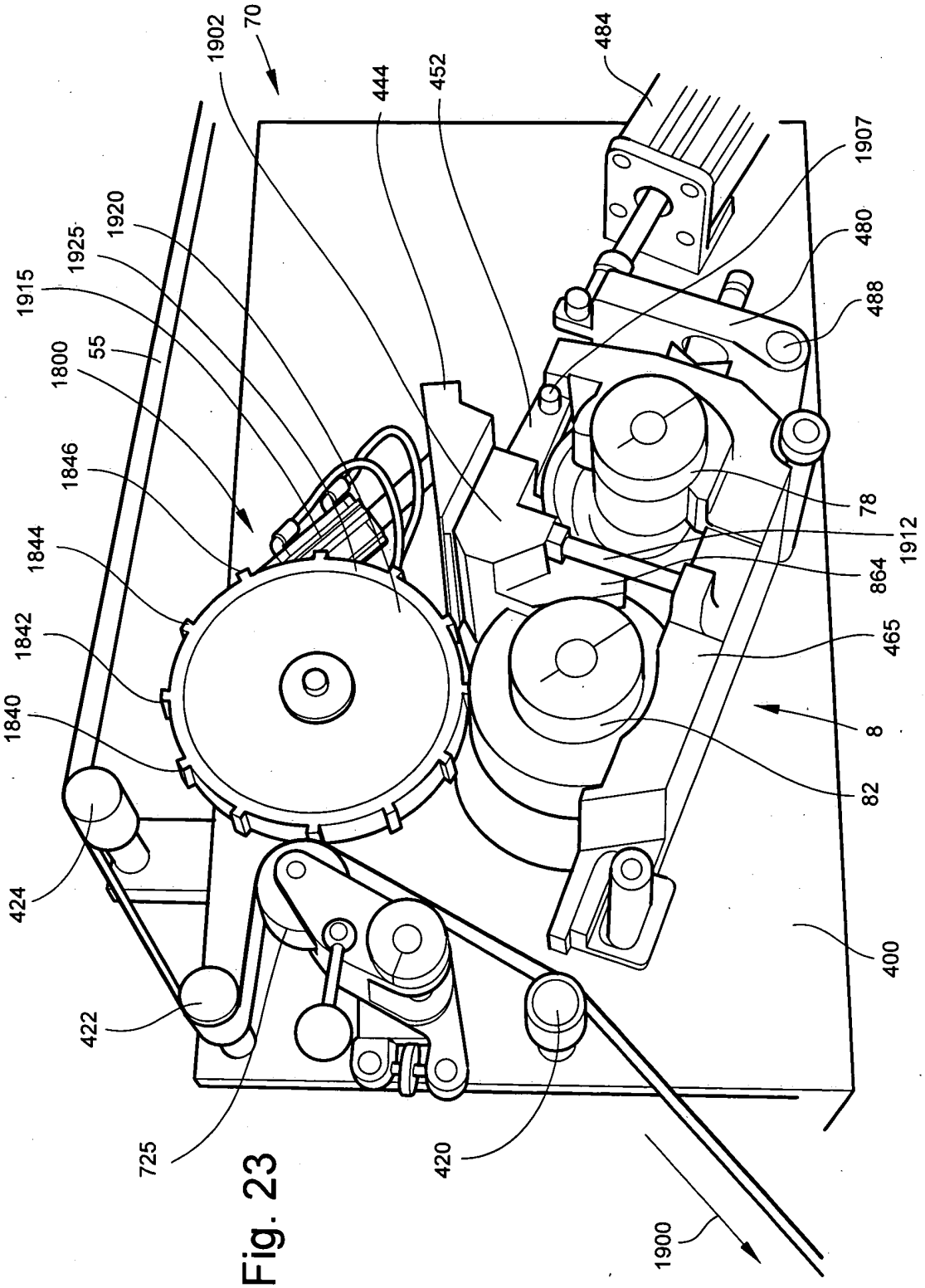


Fig. 23

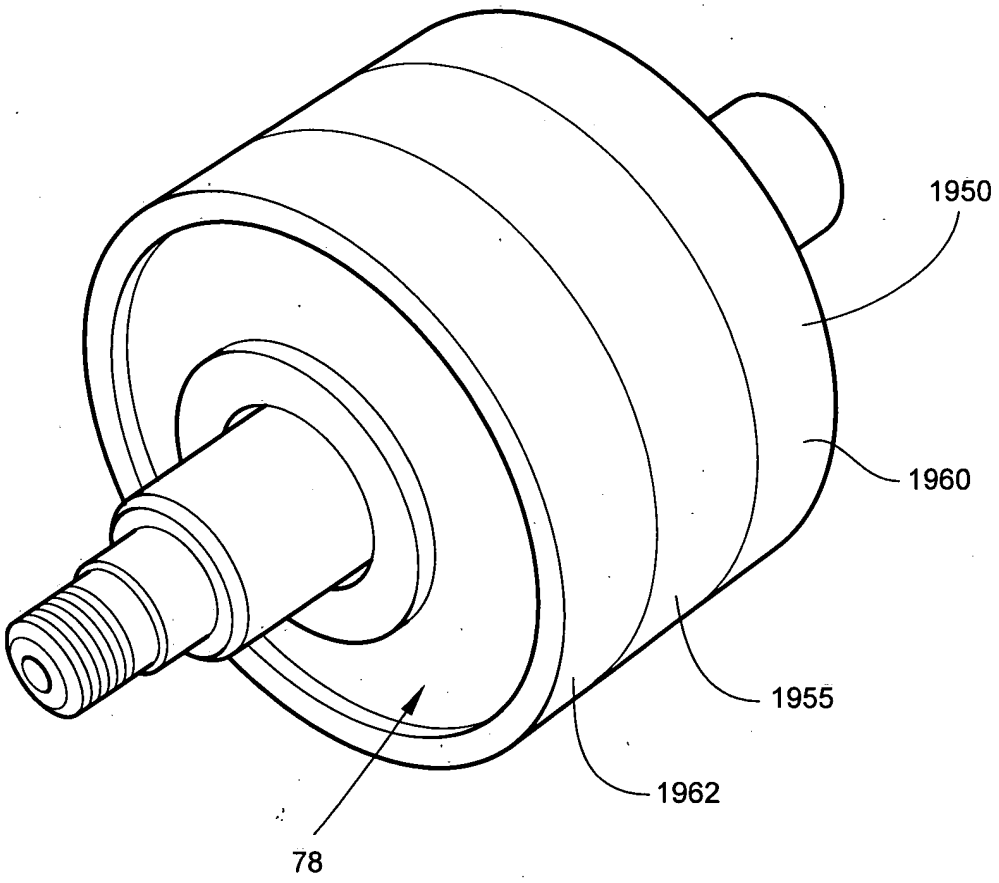


Fig. 24

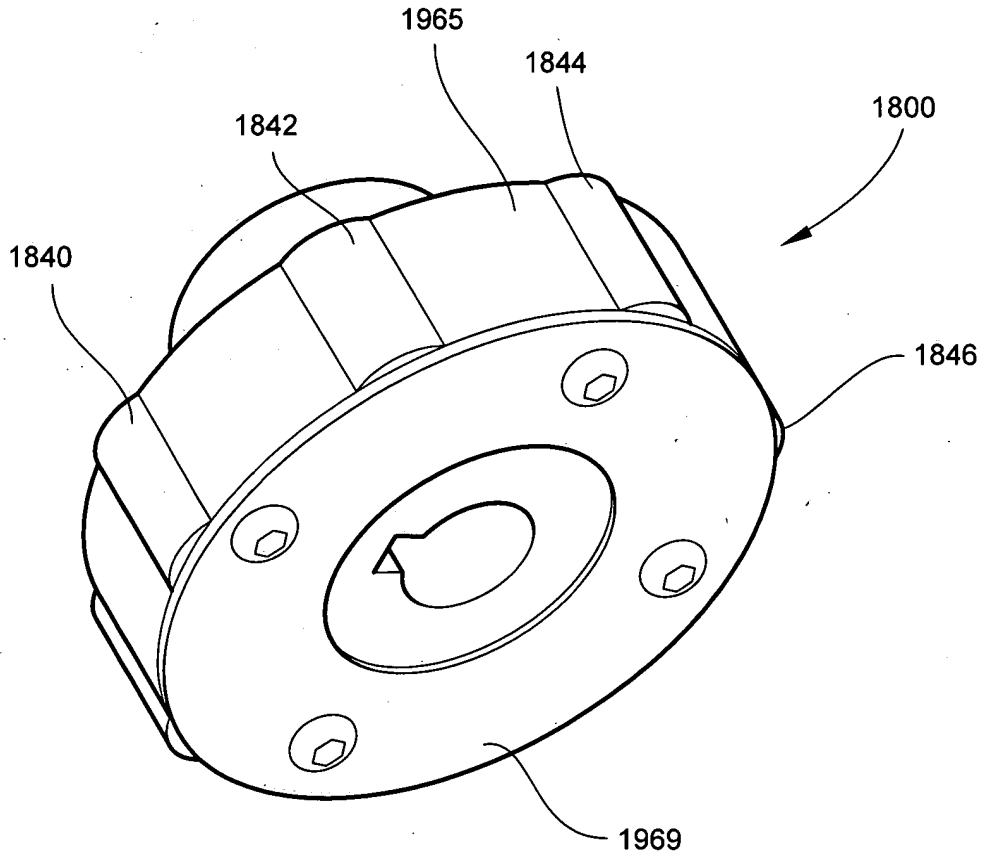


Fig. 25

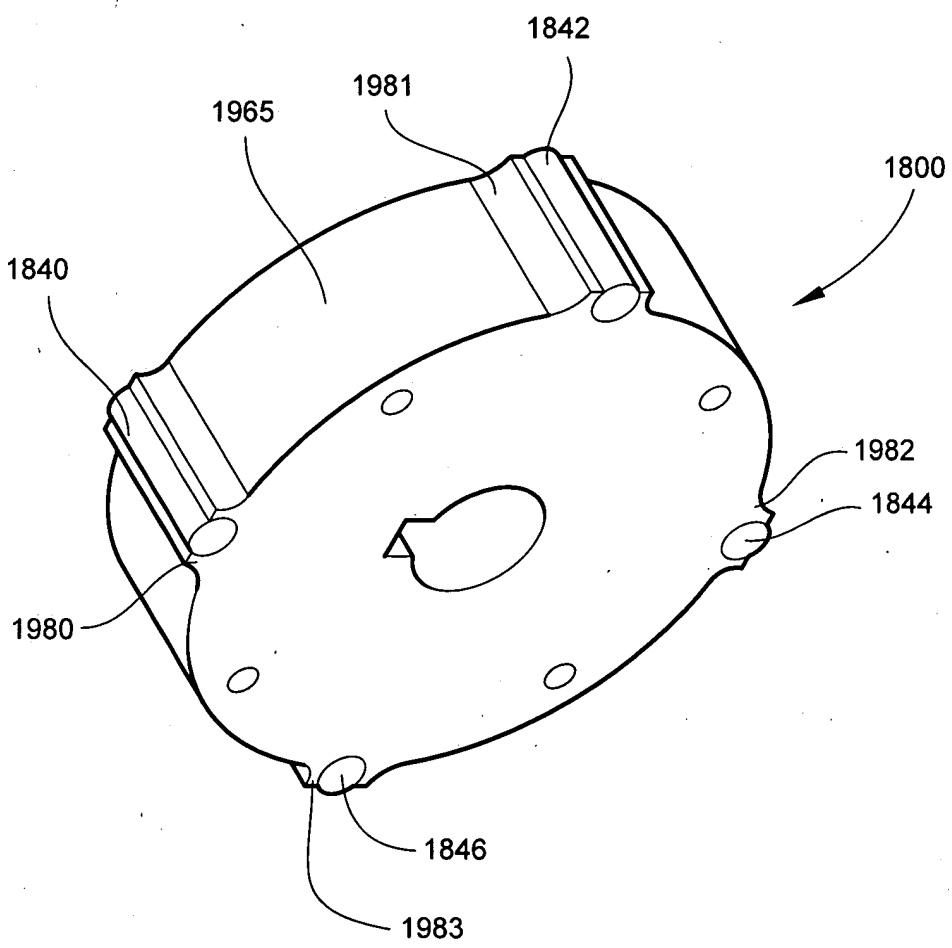
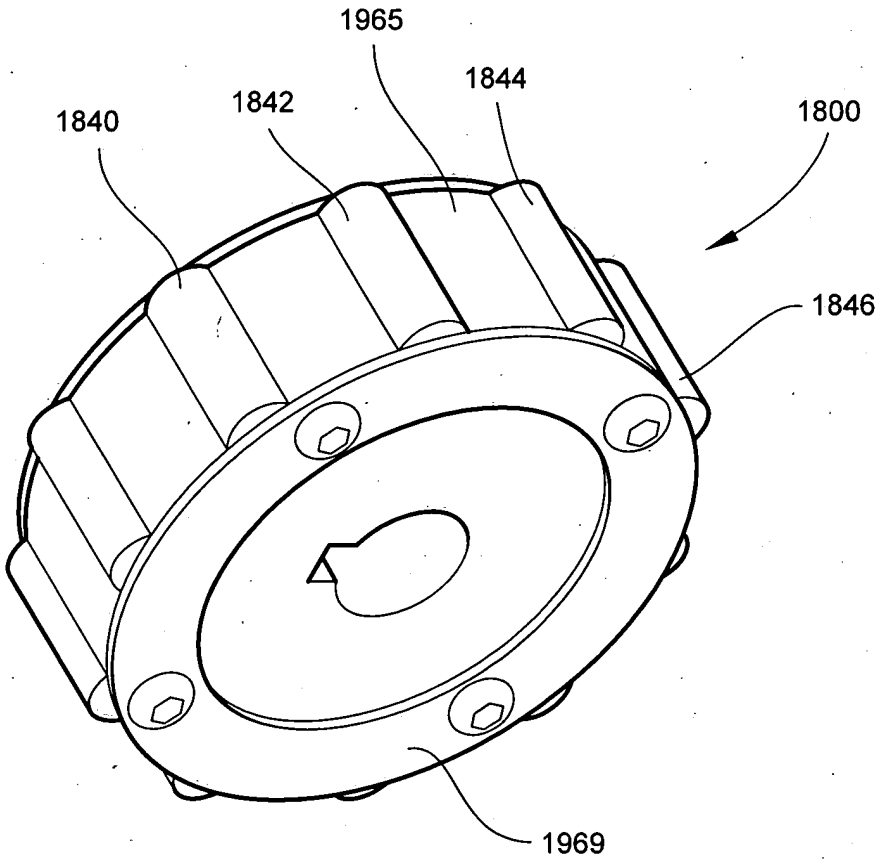


Fig. 26



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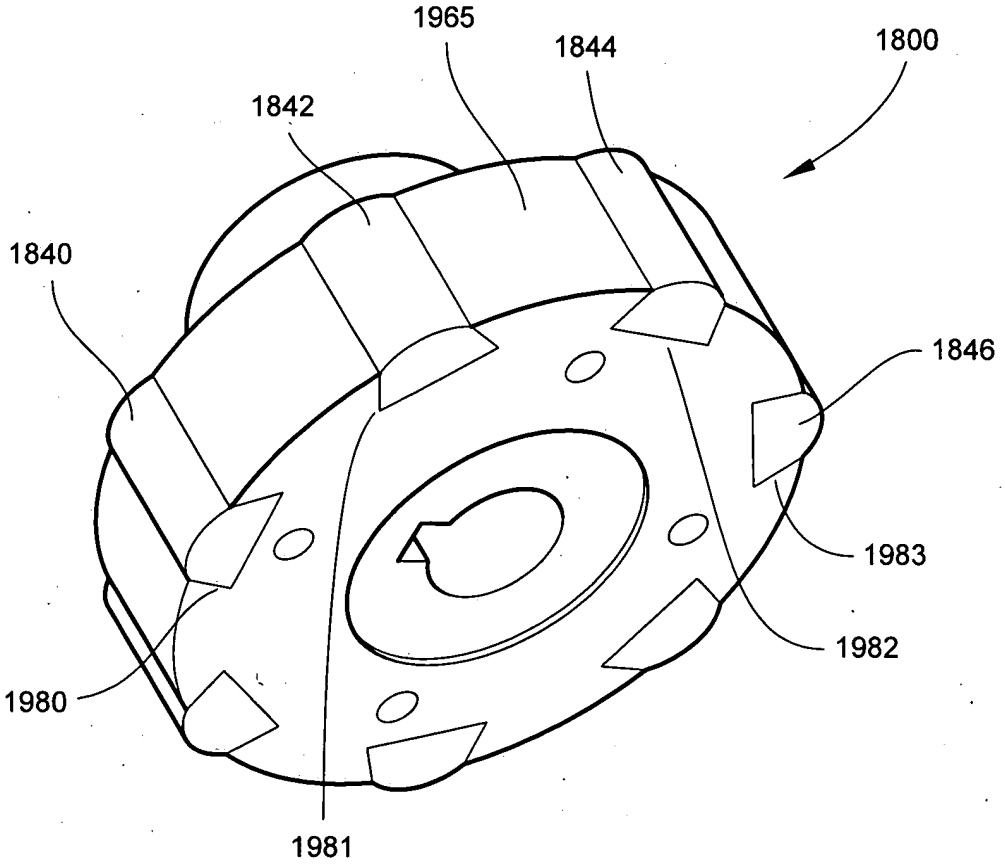

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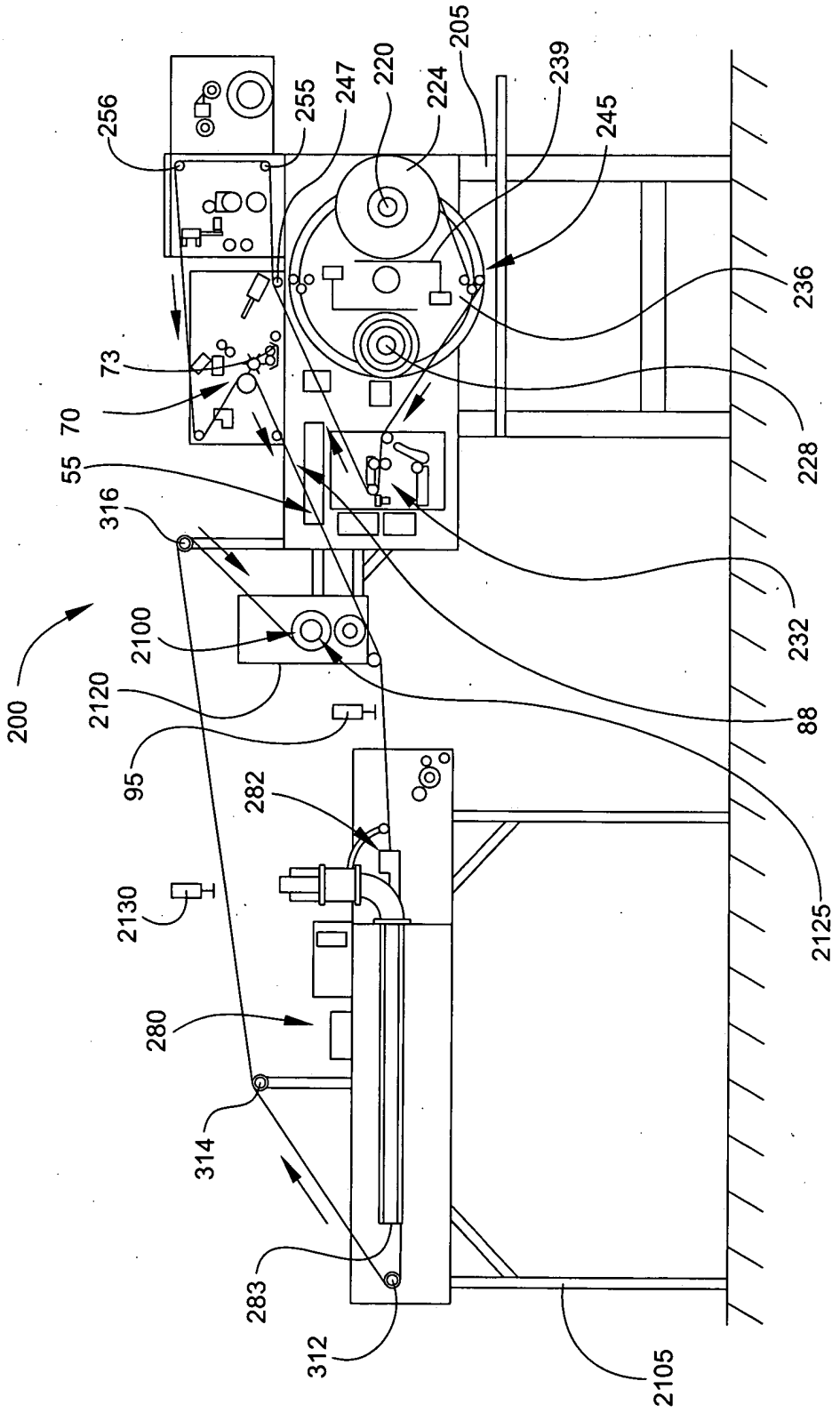
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Fig. 29

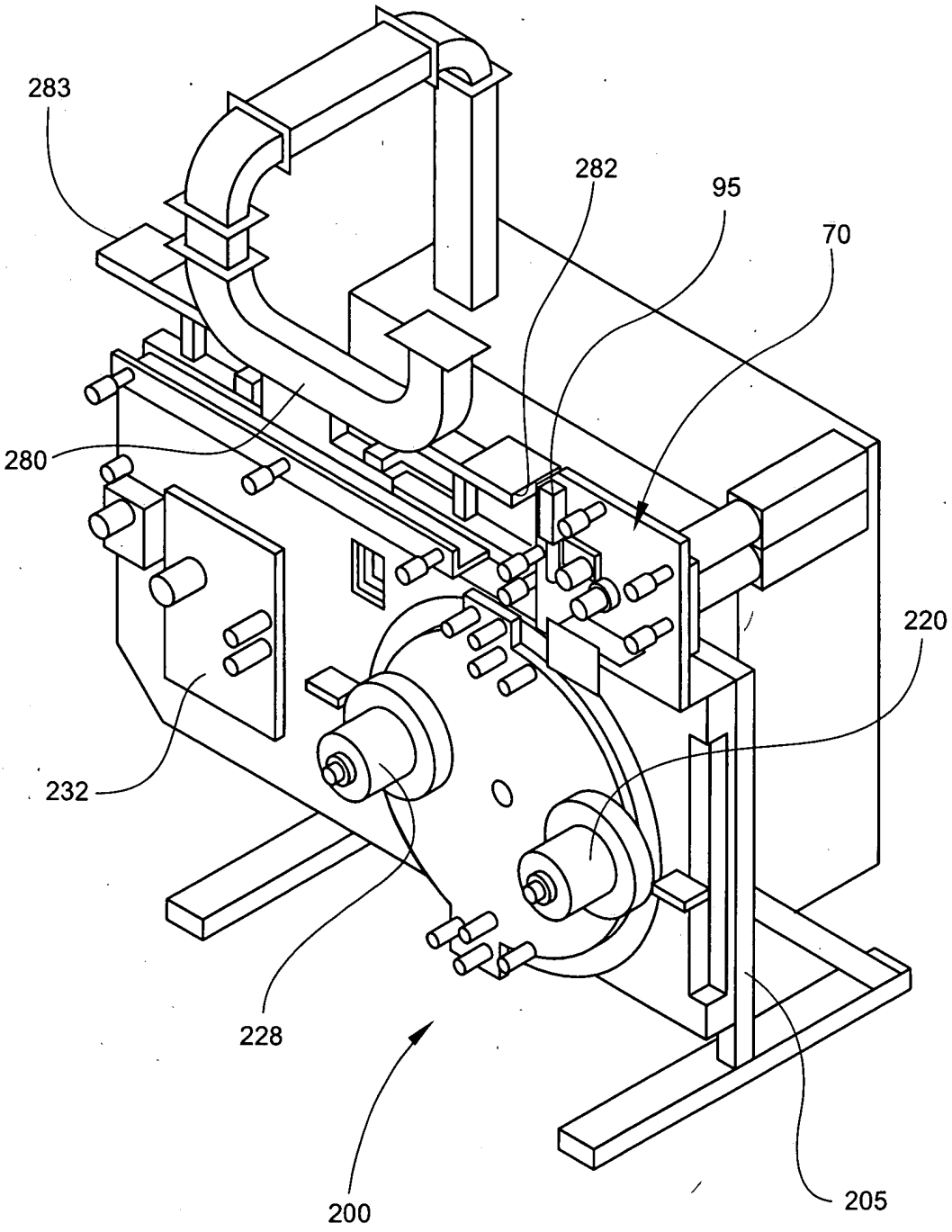

Fig. 30